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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/695,277	10/28/2003	Yong Ho Son	SEDN/152CON2	3963
	7590 11/05/200 & SHERIDAN, LLP/		EXAMINER	
SEDNA PATENT SERVICES, LLC			SAINT CYR, JEAN D	
595 SHREWSBURY AVENUE SUITE 100			ART UNIT	PAPER NUMBER
SHREWSBUR	Y, NJ 07702		2425	
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			11/05/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)					
	10/695,277	SON ET AL.					
Office Action Summary	Examiner	Art Unit					
	JEAN D. SAINT CYR	2425					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be time will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	Lely filed the mailing date of this communication. (35 U.S.C. § 133).					
Status							
1)⊠ Responsive to communication(s) filed on <u>30 Ju</u>	dv 2008						
·= · · · · · · · · · · · · · · · · · ·	action is non-final.						
<i>,</i> —	, 						
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4)⊠ Claim(s) <u>1-11</u> is/are pending in the application.							
,— , , , — , , , , , , , , , , , , , ,	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.							
6) Claim(s) <u>1-11</u> is/are rejected.	·						
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or	election requirement						
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Application Papers							
9)☐ The specification is objected to by the Examiner.							
10)⊠ The drawing(s) filed on <u>28 <i>October 2008</i></u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.							
Applicant may not request that any objection to the o	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of 	s have been received. s have been received in Applicati ity documents have been receive (PCT Rule 17.2(a)).	on No ed in this National Stage					
Attachment(s)	_						
1) Notice of References Cited (PTO-892)	4) 🔲 Interview Summary Paper No(s)/Mail Da						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)	5) Notice of Informal P						
Paper No(s)/Mail Date	6) Other:						

DETAILED ACTION

Response to Amendment

This action is in response to applicant's amendment filed on 07/30/2008.

Claims 1-11 are still pending in the present application. **This action is made FINAL**.

Response to Arguments

Applicant's arguments filed on 07/30/2008 have been totally considered, but they are not persuasive. Applicant argues that Kupka et al did not disclose partially encrypted and fully encrypted video.

However, Kupka disclose if the digital content to be download is stored on the server 16 in an encrypted format, pre-encrypted, prior to downloading then the server would need only encrypt the data key to the content. Such a technique would greatly increase the security of the data to be transmitted, as the data may be double encrypted prior to transmission to the client. That means Kupka provides a second encryption before downloading the content to the user whenever the content is stored on the server in an encrypted format, pre-encrypted format. The main purpose of the invention is to provide pre-encryption and final encryption to make the system safer against unauthorized users. As a result, this action is made final.

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140

F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 1-9 are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-9 of US. Patent No. 6681326. Although the conflicting claims are not identical, they are not patentably distinct from each other because claims 1-9 are obvious variants and encompassed by claims 1-9 of the US. Patent 6681326. In order to store, process and cause transmission, we need to have a storage unit located somewhere in the system and that proves that any server that is located inside or remotely from the distribution system is not new to the system. As a result, applicant's arguments are not persuasive for the double patenting

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) The invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed

in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-3 and 11 are rejected under 35 U.S.C. 102(e) as being anticipated by Kupka et al, US Patent No.6434535.

Re claim 1, Kupka et al disclose at least one programming source for storing at least one partially encrypted video program(see fig.1); a distribution center comprising a remote server (see fig.1, server 16; transmitting electronic data from a remote server 16 to a removable storage media 28, col.7, lines 32-33), said remote server storing said at least one partially encrypted video program received from said at least one programming source(Pre-encryption may be preferable to provide greater performance in environments where large amounts of data need to be encrypted per transaction, col.19, lines 6-9), and said remote server processing (the electronic data is encrypted during the download process to the media 28 using the unique identifier of the media 28, a vendor identifier and a user identifier as an encryption key, col.14, lines 35-38)said partially encrypted video program corresponding to a subscriber requested video program to produce a fully encrypted video program(the data may be double encrypted prior to transmission to the client); and

a subscriber-side distribution network coupled to the distribution center(see fig.1, element 12, network infrastructure/internet), for causing transmission of the fully encrypted video program to the requesting subscriber(the data may be double encrypted prior to transmission to the client).

Re claim 2, Kupka et al disclose wherein said remote server causes transmission of a decryption key to said requesting subscriber via said subscriber-side distribution network, said decryption key being necessary to decrypt said fully encrypted video

program(the data is stored on the media 28 in an encrypted format using at least the unique serial number as a decryption key).

Re claim 3, Kupka et al disclose wherein said fully encrypted video program is encrypted according to a public key associated (the encrypting using the unique identifier as an encryption key, col.4, lines 34-35) with said requesting subscriber, said public key having associated with it a private key necessary to decrypt said fully encrypted video program(the data is stored on the media 28 in an encrypted format using at least the unique serial number as a decryption key, col.18, lines 46-48).

Re claim 11, Kupka et al teach wherein said distribution center is coupled to said at least one programming source via a provider side distribution network (see fig.1, server 16a and server 16c).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 4-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kupka et al in view of Heer et al, US Patent No. 5999629.

Re claim 4, Kupka et al did not fully disclose wherein said fully encrypted video program is encrypted according to a private key associated with said requesting subscriber, said private key having associated with it a public key necessary to decrypt said fully encrypted video program.

In an analogous art, Heer et al disclose wherein said fully encrypted video program is encrypted according to a private key associated (private key, col.4, line 34) with said requesting subscriber, said private key having associated with it a public key (an associated public key, col.1, line 52) necessary to decrypt said fully encrypted video program (to decrypt the encrypted program, col.4, line 7).

It would have been obvious for any person of ordinary skill in the art at that time the invention was made to introduce wherein said fully encrypted video program is encrypted according to a private key associated with said requesting subscriber, said private key having associated with it a public key necessary to decrypt said fully encrypted video program into the system of Kupka, as taught by Heer, for the benefit of making the system safer against unauthorized users.

Re claim 5, Kupka et al did not explicitly disclose wherein said fully encrypted video program is encrypted according to a public key, said public key having associated with it a private key necessary to decrypt said fully encrypted video program, said system further comprising: said remote server transmitting said private key to said requesting subscriber.

However, Heer et al disclose wherein said fully encrypted video program is encrypted according to a public key (an associated public key, col.1, line 52), said public key having associated with it a private key necessary to decrypt said fully encrypted video program (to decrypt the encrypted program, col.4, line 7), said apparatus further comprising: said remote server transmitting said private key to said requesting subscriber (distribute that key in a secure manner to user who has entered a request, col.4,lines 23-24).

It would have been obvious for any person of ordinary skill in the art at that time the invention was made to introduce wherein said fully encrypted video program is encrypted according to a public key, said public key having associated with it a private key necessary to decrypt said fully encrypted video program, said apparatus further comprising: said remote server transmitting said private key to said requesting

subscriber into the system of Kupka, as taught by Heer, for the benefit of making the system safer against unauthorized users

Re claim 6, Kupka et al did not explicitly disclose said public key is encrypted prior to transmission to said requesting subscriber.

However, Heer et al disclose said public key(an associated public key, col.1, line 52) is encrypted prior to transmission to said requesting subscriber(encrypted and stored in server in association of program identifier, col.2, line 63; that means public key was encrypted prior any transmission).

It would have been obvious for any person of ordinary skill in the art at that time the invention was made to introduce said public key is encrypted prior to transmission to said requesting subscriber into the system of Kupka, as taught by Heer, for the benefit of making the system safer to unauthorized users.

Re claim 7, Kupka et al. did not explicitly disclose wherein said fully encrypted video program is transmitted to said requesting subscriber via a first communications channel and said decryption key is transmitted to said requesting subscriber via a second communications channel.

However, Heer et al disclose wherein said fully encrypted video program is transmitted to said requesting subscriber via a first communications channel and said decryption key is transmitted to said requesting subscriber via a second communications channel (see fig.1, the system uses bus 41 for encrypted video program and bus 61 for sharing key; col.6, lines 17-24; to this end, then, ACS 40 and module 30 communicate with one another via processor 25 and a communications channel of path 21 reserved for such communications to transport the "key" to ACS 40, col.4, lines 27-30; that means use a second path for channel communication).

It would have been obvious for any person of ordinary skill in the art at that time the invention was made to introduce disclose wherein said fully encrypted video program is transmitted to said requesting subscriber via a first communications channel and said

decryption key is transmitted to said requesting subscriber via a second communications channel into the system of Kupka, as taught by Heer, for the benefit of limiting congestion of bandwidth.

Re claim 8, Kupka et al did not explicitly disclose wherein said fully encrypted video program is encrypted according to a Data Encryption Standard.

However, Heer et al disclose wherein said fully encrypted video program is encrypted according to a Data Encryption Standard (Digital Encryption System, col. 8, line 67).

It would have been obvious for any person of ordinary skill in the art at that time the invention was made to introduce wherein said fully encrypted video program is encrypted according to a Data Encryption Standard into the system of Kupka, as taught by Heer, for the benefit of making the system more compatible.

Re claim 9, Kupka et al did explicitly disclose wherein said remote server multiplexes said fully encrypted video program and other signals to create a multiplexed signal for transmission to said requesting subscriber.

In an analogous art, Heer et al disclose wherein said remote server multiplexes said fully encrypted video program and other signals to create a multiplexed signal (see fig.5, element 7, DES processor; input data handler 6 includes an input register file configured as a FIFO, register, byte counters and a multibit, e.g., 32 bit, multiplexer, col.9. lines 63-65) for transmission to said requesting subscriber(distribute that key in a secure manner to user who has entered a request, col.4, lines 23-24).

It would have been obvious for any person of ordinary skill in the art at that time the invention was made to introduce wherein said remote server multiplexes said fully encrypted video program and other signals to create a multiplexed signal for transmission to said requesting subscriber into the system of Kupka, as taught by Heer, for the benefit of making the system more efficient.

Claim 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kupka et al in view of Garmeau et al, US Patent No. 5675647.

Re claim 10, Kupka et al did not explicitly disclose wherein said at least one programming source comprises at least one of a television broadcasting source, a premium broadcast source, and a video- on-demand source.

However, Garmeau et al teach wherein said at least one programming source comprises at least one of a television broadcasting source, a premium broadcast source, and a video- on-demand source (see fig.3 where a plurality of programming sources are connected to the Headend; pay per view or equivalent service, col.1, lines 51-52).

In view of the teaching of Garmeau, it would have been obvious for any person of ordinary skill in the art at that time the invention was made to implement wherein said at least one programming source comprises at least one of a television broadcasting source, a premium broadcast source, and a video- on-demand source into the system of Kupka for the benefit of making the system more usable.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

Application/Control Number: 10/695,277 Page 10

Art Unit: 2425

the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jean Duclos Saintcyr whose phone number is 571-270-3224. The examiner can normally reach on M-F 7:30-5:00 PM EST.If attempts to reach the examiner by telephone are not successful, his supervisor, Brian Pendleton, can be reach on 571-272-7527. The fax number for the organization where the application or proceeding is assigned is 571-273-8300. Information regarding the status of an application may be obtained from the Patent Application Retrieval (PAIR) system. Status information for published applications may be obtained from either private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197(toll free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, dial 800-786-9199(IN USA OR CANADA) or 571-272-1000.

Jean Duclos Saintcyr

/Brian T. Pendleton/
Supervisory Patent Examiner, Art Unit 2425

Application/Control Number: 10/695,277

Page 11

Art Unit: 2425